

Ordering Guide

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- Coatings
- Voltage-Main Valve Position
(When Solenoid De-energized)
- Tubing & Fittings
- Additional Attributes Unlimited Selection



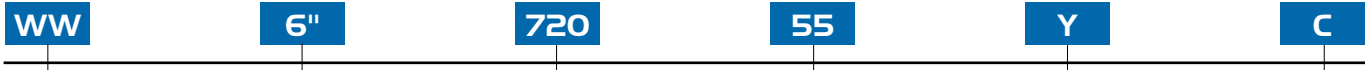
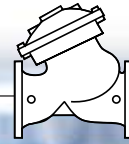
Ordering Guide

BERMAD Ordering Guide September 2009

700 Series

Water Control Solutions





Sector	Code
Waterworks	WW
Drinking Water	WD
WW Aggressive Water	WA
WW Seawater	WS
WW Air Conditioning	WC
WW Hot Water	WH

Pattern	Code
Oblique (1 1/2"-20")	Y
Angle (1 1/2"-18")	A
Globe(24-36")	G

Construction Material	Code
Ductile Iron	C
Cast Steel	S
Stainless Steel 316	N
Nickel Aluminum Bronze	U

Other materials available on request.

Size	Primary Feature	Code
1 1/2" DN40	Basic Valve (Double Chambered Actuator)	700
2" DN50	Basic Valve (Single Chambered Actuator)	705
2 1/2" DN65	Solenoid Controlled Valve	710
3" DN80	Electronic Control Valve	718
4" DN100	Pressure Management Valve, Flow Compensated PRV	7PM
5" DN125	Pressure Reducing Control Valve	720
6" DN150	Pressure Reducing & Sustaining Valve	723
8" DN200	Differential Pressure Reducing Valve	726
10" DN250	Flow Control Valve, Constant Downstream Pressure	727
12" DN300	Pressure Sustaining Valve	730
14" DN350	Pressure Relief Valve, Quick Type	73Q
16" DN400	Pressure Sustaining Valve Remote Sensing Type	730R
18" DN450	Surge Anticipating Valve	735
20" DN500	Differential Pressure Sustaining Valve	736
24" DN600	Booster Pump Control Valve, Single Chambered Actuator	740
28" DN700	Booster Pump Control Valve, Double Chambered Actuator	74Q
30" DN750	Booster Pump Control & Pressure Reducing Valve	742
32" DN800	Booster Pump Control & Pressure Sustaining Valve	743
36" DN900	Deep Well Pump Hydraulic Control Valve	744
	Deep Well Pump Electric Control Valve	745
	Booster Pump & Flow Control Valve	747
	Pump Circulation & Pressure Sustaining Valve	748
	Pump Circulation & Flow Control Valve	749
	Level Control Valve	750
	Level Control & Pressure Sustaining Valve	753
	Level & Flow Control Valve	757
	Level Sustaining Valve (Reservoir Outlet)	75A
	Hydraulic Check Valve	760
	Flow Control Valve	770
	Flow Control & Pressure Reducing Valve	772
	Flow Control & Pressure Sustaining Valve	773
	Flow Control, Pressure Reducing & Sustaining Valve	775
	Burst Control Valve (Excessive Flow)	790
	Burst Control & Pressure Reducing Valve	792
	Check Valve (Lift Type)	70N
	Strainer (Stone and Gravel Trap)	70F

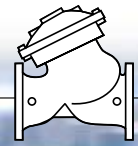
Other primary features available on request.

Additional Feature (Multiple Options Permitted)	Code	
No Additional Feature	00	
Closing and Opening Speed Control	03	
Differential Pressure	06	
Hydraulic Override	09	
Check-Lock	11	
High Sensitivity Pilot	12*	
Electronic Control	18	
Check Feature	20	
Independent Flow Check (24-32" only)	2S	
Solenoid Controlled & Check Feature	25	
Pressure Reducing Feature	2Q	
Two-Stage Opening	30	
Relief Override	3Q	
Electrically Selected Multi-Level Setting	45	
Downstream Over Pressure Guard	48	
Closing Surge Prevention	49	
Motorized Pilot	4S	
Electronic Multi-Level Setting - Type 4R	4R	
Electronic Multi-Level Setting - Type 4T	4T	
2-Way Hydraulic Relay	50	
3-Way Hydraulic Relay	54	
Solenoid Controlled	55	
Electric Override	59	
Modulating Horizontal Float	60	
Bi-Level Electric Float	65	
Bi-Level Vertical Float	66	
Modulating Vertical Float	67	
Bi-Directional Flow	70	
Altitude Pilot	80*	
Modulating Altitude Control	82*	
Sustaining Altitude Pilot	83*	
Hydraulic Positioning	85*	
Bi-Level Altitude Control	86*	
Altitude Control with Bi-Directional Flow	87*	
Setting Range	2-6 meter; 7-20 feet Setting	M1
	2-14 meter; 7-46 feet Setting	M6
	5-22 meter; 17-72 feet Setting	M5
	15-35 meter; 49-115 feet Setting	M4
	25-70 meter; 82-230 feet Setting	M8
Closing at Downstream Pressure Drop	91	
Cavitation Cage	C1	
Double Cavitation Cage	C2	
Triple Chamber Valve	TC	
Panel Mounted Control	L1	
PRV Low Flow By-Pass	2B	
Proportional	PD	

Other additional features available on request.

* Select Setting Range





I6

EB

4AC

NN

F

End Connection		Code	
Flanged	ISO-PN10	10	
	ISO-PN16	16	
	ISO-PN25	25	
	ANSI-#150	A5	
	ANSI-#300	A3	
	BST-D	BD	
	JIS-16	J6	
JIS-20	J2		
Threaded	BSP	(up to 3") BP	
	BSP-25 bar		PH
	NPT		NP
	NPT-25 bar		NH

Other end connections available on request.

Coating	Code
Epoxy FB Blue RAL 5005	EB
Polyester Green RAL 6017	PG
Polyester Blue RAL 5010	PB
Uncoated	UC

Other coatings available on request.

Voltage-Main Valve Position (When Solenoid De-energized)		Code	
24V	AC	24VAC/50Hz - Normally Closed	4AC
		24VAC/50Hz - Normally Open	4AO
		24VAC/50Hz - Last Position	4AP
	DC	24VAC/60Hz - Normally Closed	46C
		24VAC/60Hz - Normally Open	46O
		24VAC/60Hz - Last Position	46P
220V	AC	220VAC/50-60Hz - Last Position	2AP
		220VAC/50-60Hz - Normally Closed	2AC
	DC	220VAC/50-60Hz - Normally Open	2AO
		220VDC - Normally Closed	2DC
110V	AC	110VAC/50-60Hz - Normally Closed	5AC
		110VAC/50-60Hz - Normally Open	5AO
	DC	110VDC - Normally Closed	5DC
		110VDC - Normally Open	5DO
12V	DC	110VDC - Latch Solenoid	5DS
		12VDC - Normally Closed	1DC
		12VDC - Normally Open	1DO
		12VDC - Last Position	1DP
		12VDC - Latch Solenoid	1DS

Tubing & Fittings	Code
St. St. 316 Tubing & Fittings	NN
Copper Tubing & Brass Fittings	CB
Plastic Reinforced Tubing & Brass Fittings	PB
Monel Tubing & Fittings	MM

Additional Attributes (Multiple Options Permitted)	Code
V-Port Throttling Plug	V
Large Control Filter	F
Valve Position Indicator	I
Electric Limit Switch	S
Valve Position Transmitter	Q
Flow Stem	M
Lifting Spring	L
Balancing Piston Assembly	G
Orifice Assembly	U
Pressure Separator	d
Double Chambered (Active)	B
3-Way Control	X
Manual Selector	Z
Flow Over the Seat	O
St. St. 316 Control Accessories	N
St. St. 316 Actuator Internal Assembly	D
St. St. 316 Internal Trim (Closure & Seat)	T
Delrin Bearing	R
PVDF Bearing	r
High Grade Bearing & Stem	K
St. St 316. Bolts & Nuts	m
Special Elastomers for Seals & Diaphragm	E
Pressure Gauge	6

Other additional attributes are optional. Please consult our sales department for further information.

Reduction Ratios

Valve Size	Plug Type	
	Flat Disk	V-Port
1 1/2 - 2 1/2" DN40 - 65	3.7	4
3" DN80	2.6	2.9
4" DN100	2.5	2.8
6" DN150	2.5	2.7
8" DN200	2.4	2.6
10" DN250	2.3	2.5
12-14" DN300 - 350	2.2	2.4
16-20" DN400 - 500	2.2	2.3
24-36" DN600 - 900	2.2	2.3

- The reduction ratios are based on flow velocity of 2.0-3.0 m/sec.
- Reduction ratio may vary at extreme flow velocity & upstream pressure.

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Hydraulic Control Valves

700 Series


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Water Control Solutions


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Landscape



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